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TO:	Steven P. Griffin	FROM:	Adenike Adewuya
COMPANY:	U.S. Patent and Trademark Office	DATE:	7/29/2003
FAX NUMBER:	(703) 872-9373	TOTAL NO. OF PAGES INCLUDING COVER:	15
PHONE NUMBER:	(703) 308-1164	SENDER'S REFERENCE NUMBER:	SP01-117
RE:	Petition under MPEP §710.06	YOUR REFERENCE NUMBER:	09/848,904

☒ URGENT ☒ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

Dear Steven,

Thanks for your help in sorting out the correspondence address issue in the referenced case. As requested, a petition to reset period for reply in the case is enclosed.

With best regards,

*Adenike Adewuya*Adenike Adewuya
Reg. No. 42,254

4606 FM 1960 West, Suite 400, Houston, Texas 77069 | Tel 281.477.3450 | Fax 281.477.3455

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281-477-3455

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FILE No.798 07/29 '03 10:38

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001



U. S. Patent and Trademark Office

Technology Center 1700

Facsimile Transmission

11 pages



Date:

7/18/03

To: Adenike Adewunye

Organization:

Phone #: 281-477-3450

Fax #: 281-477-3455 (607) 974-3848

From:

Steve Griffin

Phone #:

(703) 308-1164

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(703) 872-9373

Comments:

09/848904

Number of Pages including this Cover Page: 52

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☐ For PTO Staff
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1002

UNITED STATES PATENT AND TRADEMARK OFFICE

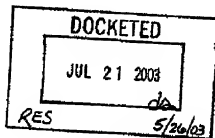
OFFICE OF THE COMMISSIONER OF PATENTS
AND TRADEMARKS
WASHINGTON, D.C. 20591

APPLICATION NO. 07/049,394	FILED DATE 05/04/2003	FIRST NAMED INVENTOR David L. Teneau	ATTORNEY DOCKET NO. DOL-117	CONFIRMATION NO. 9702
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2813 3960 02/28/03
ROSENTHAL & OSHA L.L.P.
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SUITE 2800
HOUSTON, TX 77010SEARCHER
VINCENT, SEAN EART UNIT
1701
PAPER NUMBER

DATE MAILED: 02/04/2003

Please find below and/or attached an Office communication concerning this application or proceeding.



PTO-PHC (Rev. 07-01)

FILE No. 798 07/29 '03 10:38 ID: CORNING PATENT DEPT
07/18/03 FBI 14:47 FAX 7033087718FAX: 6079742407
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0003

Office Action Summary		Application No. 08848,904	Applicant(s) TENNET ET AL.
		Examiner Sean E Vincent	Art Unit 1731

— THE MAILING DATE of this communication appears on the cover sheet with the correspondence address —

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extension of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed more than 6 MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than three (3) days, a reply under the statutory provisions of 35 U.S.C. § 155 will be considered timely.
- A 2-MO period for reply is specified above. The applicant must file a reply and mail receipt 602 on 08/29/03 from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become **ABANDONED** (35 U.S.C. § 155).
- A fee must be paid by the Office before time expires after the mailing date of this communication, even if timely filed, may require any stated period time requirement. See 37 CFR 1.204(c).

Status

1) ☒ Responsive to communication(s) filed on ____.

2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 465 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) 1-32 is/are pending in the application.

4a) ☐ Of the above claim(s) ____ is/are withdrawn from consideration.

5) ☐ Claim(s) ____ is/are allowed.

6) ☒ Claim(s) 1, 2, 4-20 and 22-32 is/are rejected.

7) ☒ Claim(s) 3 and 21 is/are objected to.

8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

9) ☒ The specification is objected to by the Examiner.

10) ☒ The drawing(s) filed on 04 May 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.86(a).

11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved by ☐ disapproved by the Examiner.

If approved, corrected drawings are required in reply to this Office action.

12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) ☐ All b) ☐ Some c) ☐ None of:

- ☐ Certified copies of the priority documents have been received.
- ☐ Certified copies of the priority documents have been received in Application No. ____.
- ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (a provisional application).

a) ☐ The translation of the foreign language provisional application has been received.

15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- ☒ Notice of Reference Cited (PTO-894)
- ☐ Notice of Drafting/Review Patent Drawing Review (PTO-648)
- ☐ Information Disclosure Statement(s) (PTO-144) Paper No(s) 2, 5.
- ☐ Interview Summary (PTO-413) Paper No(s) ____.
- ☐ Notice of Informal Patent Application (PTO-162)
- ☐ Other:

US Patent and Trademark Office
PTO-529 (Rev. 04-01)

Office Action Summary

Part of Paper No. 3

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DETAILED ACTION*Specification*

1. The disclosure is objected to because of the following informalities: page 7, lines 23 and 24 contain a blank reference to another US application.

Appropriate correction is required.

Claim Objections

2. Applicant is advised that should claim 18 be found allowable, claim 19 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-31 and 33 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the listed perfluorinated groups (page 4, line 24), does not reasonably provide enablement for all of the numerous possible perfluorinated groups. The specification does not enable any person skilled in the art to which it pertains, or with which it is

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most nearly connected, to use the invention commensurate in scope with these claims. It is the position of the examiner that "perfluorinated groups" reads on an infinite number of perfluorinated hydrocarbon structures. Further the terms "chloro-derivative" and "fluoro-derivative" are broader in scope than "perfluorinated group".

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claim 32 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claim is confusing because the selection of CF_3 or C_6F_5 as R_1 would result in a chloro-derivative containing precursor that contained no chlorine.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. Claims 1, 2, 4-11, 14-20, 22-27, 29-31 and 33 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Ran et al (US 4162908). The features of applicant's claims can be found in the figures, col. 2, lines 56-59; col. 3, lines 15-35; col. 4, lines 16-50 and the claims. It is the position of the examiner that "silica precursor comprising a perfluorinated group" reads on perfluorinated silanes. There is no apparent requirement in the claims for carbon atoms in the precursor compounds.

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9. Claims 12 and 28 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Figure 2 of EP 0208086 A1.

Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(e) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

12. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Rau et al in view of Guerder et al (US 4367013).

13. Rau et al does not teach delivering other metal oxide precursors to the conversion site. Guerder et al taught similar silicon deposition with fluorine doping and included titania precursors to produce titania and fluorine doped silica (see abstract and col. 4, line 63 to col. 5, line 49 as well as col. 7, line 56 to col. 8, line 8). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include titania precursors at the conversion site of

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Rau et al because Guerdor et al taught in col. 1, lines 28-36 that germanium, boron, titanium and aluminum oxide doping was well known in the art for adjusting the refractive index of silica.

Allowable Subject Matter

14. Claims 3 and 21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
15. Claim 32 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
16. The following is a statement of reasons for the indication of allowable subject matter: The prior art does not teach or fairly suggest methods for making silica as claimed using silica precursors satisfying one of the following conditions:
- The precursor is represented by $\text{Si}(\text{OR}_x)_n\text{F}_{4-n}$ wherein R_x is the perfluorinated group and x is an integer from 1 to 4,
 - The precursor is one of $\text{Si}(\text{R}_x)_4$ or $\text{Si}(\text{OR}_x)_4$ wherein R_x is one of CF_3 , CClF_2 , CCl_2F , CCl_3 and C_2F_5 .
- It would not have been obvious to use such precursors in the prior art methods.

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Conclusion

17. The prior art made of record and not relied upon is cited to further show the state of the art.

18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean E Vincent whose telephone number is 703-303-3607. The examiner can normally be reached on M - F (8:30 - 6:00) Second Monday Off.

19. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven P Griffin can be reached on 703-308-1164. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

20. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.



Sean E Vincent
Primary Examiner
Art Unit 1731

S Vincent
February 21, 2003

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FORM PTO-1449 (MODIFIED) ATTORNEY DOCKET NO. SERIAL NO.
 LIST OF PATENTS AND PUBLICATIONS SP01-117 09/848,904
 FOR APPLICANTS INFORMATION DISCLOSURE STATEMENT
 APPLICANT Tennant et al.
 FILING DATE 5/4/01 GROUP: 1731

REFERENCE DESIGNATION				U.S. PATENT DOCUMENTS			
Examiner Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date if Approp.	
AA						RECEIVED OCT 2 2002 TC 1700	
AB							
AC							
AD							
AE							
AF							

FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Sub-Class	Translation Yes No	
SV	AL 60-86039	5/15/85	Japan	C03B	8/04		X
	AM 0 208 086	5/12/86	Europe	C03B	37/018		X
	AN 59-162143	9/13/84	Japan	C03c	1/02		X
	AO 1 063 203	12/27/00	Europe	C03C	3/06	X	
SV	AP WO 01/83388	11/8/01	PCT	C03B	37/014	X	
	AQ						

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)		
SV	AR	Patent Abstracts of Japan; JP 60-086039; 05/15/85; I. Nobuo; Nippon Teleg. & Teleph. Corp.
	AS	Patent Abstracts of Japan; JP 62-143840; 06/27/87; T. Yoshiyuki; Mitsui Toatsu Chem. Inc.
	AT	Patent Abstracts of Japan; JP 62-143839; 06/27/87; T. Yoshiyuki; Mitsui Toatsu Chem. Inc.
	AU	Patent Abstracts of Japan; JP 59-162143; 09/13/84; S. Shohel; Shin Etsu Chem. Co. Ltd.
	AV	Patent Abstracts of Japan; JP 62-252335; F. Keitaro; Shin Etsu Chem. Co. Ltd. (4/11/87)
SV	AW	Patent Abstracts of Japan; JP 09-086937; 03/31/97; S. Katsunari; Shin Etsu Chem. Co. Ltd.

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §902. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication as applicant.

Information Disclosure Statement-PTO-1449 (Modified)

FORM PTO-1449 (MODIFIED) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTORNEY DOCKET NO.	SERIAL NO.
	SP01-117	
	APPLICANT Tennant et al. FILING DATE GROUP:	

REFERENCE DESIGNATION		U.S. PATENT DOCUMENTS					
Examiner (Initial)		Document Number	Date	Name	Class	Sub-Class	Filing Date if Approp.
SV	AA	4,629,485	12/16/86	Berkey	65	3.11	9/26/83
	AB						
	AC						
	AD						
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FOREIGN PATENT DOCUMENTS							
		Document Number	Date	Country	Class	Sub-Class	Translation Yes No
	AL						
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	AN						
	AO						
	AP						
	AQ						

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)	
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AV	
AW	

EXAMINER: *Carl V. Kest* DATE CONSIDERED: *2-12-03*
 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement-PTO-1449 (Modified)

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07/18/03 FAX 14:50 FAX 7033067716FAX:6079742407
QP 1700 FAX MACHINEPAGE 22
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Notice of References Cited	Application/Control No. 09946,804	Applicant(s)/Patent Under Reexamination TENHUNT ET AL.	
	Examiner Sean E Vincent	Art Unit 1731	Page 1 of 1

U.S. PATENT DOCUMENTS

* Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
A US-4,182,305	07-1978	Rau et al.	05/00.53
B US-4,321,828	08-1980	Quader et al.	427/462
C US-4,367,913	01-1983	Gulander et al.	428/42.5
D US-5,889,615	04-1999	Iskhren et al.	06/377
E US-			
F US-			
G US-			
H US-			
I US-			
J US-			
K US-			
L US-			
M US-			

FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

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V				
W				
X				

*A copy of this document is not being furnished with the Office action. (See MPEP § 707.02(a).)
 Entries in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office
 PTO-502 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 8